



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

September 1, 2011

Mike Perito  
Vice President Operations  
Entergy Operations, Inc.  
Grand Gulf Nuclear Station  
P.O. Box 756  
Port Gibson, MS 39150

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
GRAND GULF NUCLEAR STATION

Dear Mr. Perito:

On August 17, 2011, the NRC completed its mid-cycle performance review of Grand Gulf Nuclear Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010 through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

Overall, Grand Gulf Nuclear Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. The NRC determined the performance at Grand Gulf Nuclear Station during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. Temporary Instruction (TI) 177 Inspection, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems" is scheduled to begin the week of December 5, 2011.

In the days following the Fukushima Dai-ichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency

should make additional improvements to its regulatory system. The NRC has since completed TI-183, "Follow-up to Fukushima Dai-ichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident." The Commission is currently reviewing the Task Force's recommendations to determine whether additional actions may be warranted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 817-860-8144 with any questions you have regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Gaddy", with a stylized flourish extending to the right.

Vincent G. Gaddy, Chief  
Reactor Projects Branch C  
Division of Reactor Projects

Docket Nos. 50-416  
License Nos. NPF-29

Enclosure: Grand Gulf Inspection/Activity Plan

Distribution via ListServ

## Grand Gulf

## Inspection / Activity Plan

09/01/2011 - 12/31/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	10/31/2011 11/04/2011	<b>EXAM - INITIAL OPERATOR EXAM</b>		3
	X02479		INITIAL EXAM - GRAND GULF (12/2011)	
1	12/05/2011 12/09/2011	X02479	INITIAL EXAM - GRAND GULF (12/2011)	4
		<b>TSB-52B - BIENNIAL PI&amp;R</b>		
1	10/03/2011 10/07/2011	IP 71152B	Problem Identification and Resolution	
1	10/17/2011 10/21/2011	IP 71152B	Problem Identification and Resolution	
		<b>EPI - BIENNIAL EP EXERCISE INSPECTION</b>		3
1	10/31/2011 11/04/2011	IP 7111401	Exercise Evaluation	
1	10/31/2011 11/04/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	10/31/2011 11/04/2011	IP 711151	Performance Indicator Verification	
		<b>TI-177 - MANAGING GAS ACCUMULATION</b>		1
1	12/05/2011 12/09/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		<b>PWR UPR - POWER UPRATE</b>		3
1	01/01/2012 06/30/2012	IP 71004	Power Uprate	
		<b>PSB2-08G - INSERVICE INSPECTION</b>		1
1	02/06/2012 02/19/2012	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>RS12 - RADIATION SAFETY</b>		2
1	03/12/2012 03/16/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/12/2012 03/16/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/12/2012 03/16/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	03/12/2012 03/16/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>EXAM - INITIAL OPERATOR EXAM</b>		4
1	11/05/2012 11/09/2012	X02497	INITIAL EXAM FOR GRAND GULF (01/01/2012)	
1	12/03/2012 12/14/2012	X02497	INITIAL EXAM FOR GRAND GULF (01/01/2012)	
		<b>EB1-21 - COMPONENT DESIGN BASIS INSPECTION</b>		4
1	06/25/2012 07/27/2012	IP 7111121	Component Design Bases Inspection	
1	06/25/2012 07/27/2012	IP 7111121-DesMargin	Risk-significant/low Design Margin Components	
1	06/25/2012 07/27/2012	IP 7111121-OpAction		
1	06/25/2012 07/27/2012	IP 7111121-OpIssues	Operating Experience Issues	
		<b>RS34 - RADIATION SAFETY</b>		2
1	08/06/2012 08/10/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	08/06/2012 08/10/2012	IP 71124.04	Occupational Dose Assessment	
		<b>EP-1 - BIENNIAL EP PROGRAM INSPECTION</b>		1
1	09/10/2012 09/14/2012	IP 7111402	Alert and Notification System Testing	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

## Grand Gulf

## Inspection / Activity Plan

09/01/2011 - 12/31/2012

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			EP-1 - BIENNIAL EP PROGRAM INSPECTION		
1	09/10/2012	09/14/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	1
1	09/10/2012	09/14/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	09/10/2012	09/14/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	09/10/2012	09/14/2012	IP 71151-EP01	Drill/Exercise Performance	
1	09/10/2012	09/14/2012	IP 71151-EP02	ERO Drill Participation	
1	09/10/2012	09/14/2012	IP 71151-EP03	Alert & Notification System	
Comments:					

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.